| POSITION                  | INITIALS | ir ko. | DATE    |  |  |  |  |  |
|---------------------------|----------|--------|---------|--|--|--|--|--|
| _                         |          |        |         |  |  |  |  |  |
| FEE DETERMINATION         |          | -      |         |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | 19     | 1/701   |  |  |  |  |  |
| FORMALITY REVIEW          | ER       | 765    | 2-22-6) |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | H-1 -:   | Fir    | N 05 70 |  |  |  |  |  |

## **INDEX OF CLAIMS**

| • | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| i        | į        |                |                   |  |          |              |                |              |          |              |          |          |          |          | Interference<br>Appeal                                   |          |          |                |              |          |                                     |          |          |    |       |            |          |              |          |   |                |  |          |
|----------|----------|----------------|-------------------|--|----------|--------------|----------------|--------------|----------|--------------|----------|----------|----------|----------|--|----------|----------|----------------|--------------|----------|-------------------------------------|----------|----------|----|-------|------------|----------|--------------|----------|---|----------------|--|----------|
| ,        | •        |                |                   |  |          | ÷            |                |              |          |              |          |          | Resi     | tric     | ted  |          |          |                | 0            |          |                                     |          |          |    |       | . Obje     | cted     | i            |          |   |                |  |          |
| i        |          |                |                   |  |          |              |                |              |          |              |          |          |          |          |  |          |          |                |              |          |                                     |          |          |    |       |            |          |              |          |   |                |  |          |
| CI       | aim      |                |                   | Date   |          |              |                |              |          | CI           | aim      |          | Date     |          |  |          |          |                |              |          |                                     | ļ        | Cla      | im |       | Date       |          |              |          |   |                |  |          |
| Final    | Original | PM845          |                   |  |          |              |                |              |          |              |          | Final    | Original |          |  |          |          |                |              |          |                                     |          |          |    | Final | Original   |          |              |          |   |                |  |          |
|          |          | 2              |                   |  |          |              |                |              |          |              |          |          | 51       |          |  |          |          |                |              |          |                                     |          |          | [  |       | 101        |          |              |          |   |                |  | Γ        |
|          | 2        | /              | Ĺ                 |  |          |              |                | L            | _        |              |          |          | 52       |          |  | _        | _        |                |              |          | _                                   | _        |          | Ļ  |       | 102        |          |              |          |   | Ш              |  | _        |
|          | 3        | <u>_</u>       |                   |  | L        | _            | _              | L            | _        | Ш            |          |          | 53       | _        |  | _        |          | _              |              | _        |                                     | 4        |          | ļ  |       | 103        | <u> </u> |              |          |   | Ш              | Ш  | _        |
| $\vdash$ | 4        | -              | _                 | <u> </u>   | $\vdash$ | _            | ├-             | L            |          | $\square$    | _        |          | 54<br>55 | _        |  | -        |          | _              |              |          |                                     | -        | $\dashv$ | ŀ  |       | 104<br>105 | -        | $\vdash$     | _        | -   | $\vdash\vdash$ | $\vdash$   | $\vdash$ |
| $\vdash$ | 5<br>6   | 7              | _                 | _  | H        |              |                | H            | ⊢        | $\vdash$     | $\dashv$ |          | 56       |          |  |          |          |                |              |          | -                                   | $\dashv$ | $\dashv$ | ŀ  |       | 106        | $\vdash$ | $\vdash$     |          | H   | $\vdash\vdash$ | <del></del>                                      | $\vdash$ |
| -        | 7        | F              |                   |  | ┝        |              | ├-             | -            | -        |              |          |          | 57       |          |  |          | $\dashv$ |                |              | $\dashv$ |                                     | $\dashv$ | $\dashv$ | ŀ  | _     | 107        | $\vdash$ | Н            |          | $\vdash$  | $\vdash$       |  | ⊢        |
| $\vdash$ | 8        | _              | H                 |  |          |              | ┢              |              |          | Н            |          |          | 58       | -        |  | ᅱ        | $\dashv$ |                | $\dashv$     | $\dashv$ |                                     | $\dashv$ | $\dashv$ | ł  |       | 108        |          | Н            |          | $\vdash$  |                |  | -        |
| $\vdash$ | 9        | Ė              | $\vdash$          | $\vdash$   | $\vdash$ | ╁            | 1              |              |          | $\vdash$     | _        |          | 59       | -        |  | _        |          | -              |              |          |                                     | $\dashv$ | 一        | ŀ  |       | 109        | +        | H            |          | $\vdash$  | Н              |  | Н        |
|          | 10       | $\vdash$       | -                 | 一  | Г        | <del> </del> | <b></b> -      | -            |          |              | $\neg$   |          | 60       |          |  | $\neg$   |          | $\neg \dagger$ |              |          |                                     |          | $\dashv$ | ŀ  |       | 110        |          | Н            |          | T   | П              | $\Box$   | Г        |
|          | 11       | ·              | $\vdash$          | $\vdash$   |          | $\vdash$     | 1              |              | Г        |              | 7        |          | 61       |          |  |          |          | $\neg$         |              |          |                                     | $\neg$   | _        | ľ  |       | 111        | $\top$   |              |          |   |                |  |          |
|          | 12       |                |                   |  |          | Γ            | Γ              |              | Γ        |              |          |          | 62       |          |  |          |          |                |              |          |                                     |          |          | Ì  |       | 112        |          |              |          |   |                | L  |          |
|          | 13       |                |                   |  |          |              |                |              |          |              |          |          | 63       |          |  |          |          |                |              |          |                                     |          |          | [  |       | 113        |          |              |          |   |                |  |          |
|          | 14       | _              |                   |  |          |              |                |              |          |              |          |          | 64       |          |  |          |          |                |              |          |                                     |          |          | [  |       | 114        |          |              |          |   |                |  |          |
|          | 15       | 1              | <u> </u>          | _  | <u> </u> |              |                | L            | <u> </u> | L.           | _        |          | 65       | _        |  |          |          |                |              |          |                                     |          | ᆜ        | ļ  |       | 115        |          |              | _        | <u> </u>  |                | _  | L        |
|          | 16       | <u>[</u>       | _                 | _  | _        | _            | _              | <u> </u>     | <u> </u> |              |          |          | 66       | _        |  |          |          |                |              |          |                                     |          | _        |    |       | 116        | 1        | Ш            |          | <u>  .                                     </u> | Ш              | L  | L        |
| $\vdash$ | 17       | ·              | ļ                 | <u> </u>   | ļ        | <u> </u>     | <u> </u>       | <u> </u>     | L        |              | _        | $\vdash$ | 67       | _        | <u> </u>   |          |          |                |              |          |                                     |          | _        | Ì  |       | 117        | _        | Ш            |          | ┞   | Ш              | <u> </u>   | ╄        |
| ·  _     | 18       | L              | _                 | _  | 1        | <u> </u>     | ⊢              | ┡            | <u> </u> | Ш            | 4        | <u> </u> | 68       | _        | <u> </u>   |          |          |                |              | _        |                                     |          |          |    |       | 118        | ┿        | Н            | L        | ╄   | $\vdash$       | <u> </u>   | ┞        |
| -        | 19       | <u> </u>       | <del> </del>      | ⊢  | <u> </u> |              | ⊢              | ⊢            |          | Н            | $\dashv$ | $\vdash$ | 69       | L        | 1  |          |          |                |              | _        |                                     | -        | _        |    |       | 119        | +        | Н            | L        | ╀   | Н              |  | ⊢        |
| .  _     | 20       | _              |                   |  |          | ļ            | <u> </u>       |              | <u> </u> | Ш            | _        | -        | 70       | _        | L  |          |          |                |              |          | _                                   |          |          | ļ  |       | 120        | 1        | <u> </u>     | _        | <del> </del>                                    | $\sqcup$       | _  | L        |
| ҉        | 21       |                | <del> </del>      | <u> </u> -                                       | <u> </u> | -            | <del> </del> _ | _            | ┡        |              | $\dashv$ | -        | 71       | _        | <del> </del> —   |          |          |                | _            |          | Ш                                   | Н        | _        |    |       | 121        | $\vdash$ | $\vdash$     | ┡        | ┼   | <u> </u>       | <u> </u>   | ┾        |
| ┝        | 22       |                | ├                 | ├  | ┢        |              | ⊢              | ┞            | -        | -            | _        | -        | 72<br>73 | -        |  |          |          |                |              |          | _                                   | Н        |          |    |       | 122<br>123 | +        | ₩            |          | ╁   | Н              |  | ⊢        |
| 1        | 24       | ⊢              | ⊢                 | $\vdash$   | $\vdash$ |              | $\vdash$       | $\vdash$     | $\vdash$ | Н            | $\dashv$ | -        | 74       | $\vdash$ |  |          |          | _              |              |          |                                     | $\vdash$ |          |    |       | 124        | +        | $\vdash$     | ├        | ╁   | $\vdash$       | ⊢  | ╁╾       |
| $\vdash$ | 25       | -              | <del>  -</del>    | ├─   | ┢        |              | ╁              | ┢            | ┢        | $\vdash$     | $\dashv$ | $\vdash$ | 75       |          |  |          | -        |                | $\vdash$     |          |                                     | Н        | $\dashv$ |    |       | 125        | +        | $\vdash$     | -        | ╁   | $\vdash$       | -  | ╁        |
| $\vdash$ | 26       | $\vdash$       | H                 |  |          | -            | $\vdash$       | $\vdash$     | ╁╌       | Н            | _        | -        | 76       |          | $\vdash$   | $\vdash$ |          |                |              |          |                                     | $\vdash$ |          |    |       | 126        | ╁        | $\vdash$     |          |   | H              | ┢  | H        |
| $\vdash$ | 27       | <del> </del> - | $\vdash$          | <del>                                     </del> | ┢        |              | ┢              | 1            | 一        |              |          |          | 77       | -        |  |          |          | _              |              | _        | -                                   |          | -        |    | _     | 127        | +        | $\vdash$     |          | 1   | $\vdash$       | Н  | H        |
|          | 28,      | -              | 1                 | -  | Ť -      | <b></b> -    | T              | $\vdash$     | T        | 1            | _        |          | 78       |          |  |          |          |                |              |          |                                     | П        | $\neg$   |    |       | 128        | †        | <u> </u>     | -        | 1   |                |  | Τ        |
| Τ.       | 29       |                | Г                 |  | Г        |              | T              |              |          | П            |          |          | 79       |          |  |          |          |                |              |          |                                     |          |          |    |       | 129        | 1        |              |          |   |                |  |          |
| 7        | 30       | Γ.             |                   | П  |          |              |                | Г            | T        |              | _        |          | 80       |          |  |          |          |                |              |          |                                     |          |          |    |       | 130        |          |              |          |   |                |  |          |
|          | 31       |                |                   | <u> </u>   | L        |              |                |              |          |              |          |          | 81       |          |  |          |          |                |              |          |                                     |          |          |    |       | 131        |          |              |          |   |                |  |          |
|          | 32       |                | <u> </u>          |  | Ĺ        | Ĺ            |                |              |          |              |          |          | 82       |          |  |          |          | Ш              |              |          |                                     | Ц        | $\Box$   |    |       | 132        | 1        | $\perp$      |          | 1_  | igspace        | _  | $\perp$  |
| $\vdash$ | 33       | L              | $ldsymbol{f eta}$ |  | L        | L            |                | $\perp$      | $\perp$  | Ш            | $\sqcup$ |          | 83       | _        | _  | L.       | _        |                |              | L        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Ц        |          |    |       | 133        | _        | <del> </del> |          | 1   | igspace        | $\vdash$   | $\perp$  |
| <u> </u> | 34       | $\vdash$       | _                 |  |          | $\vdash$     | _              | $\vdash$     | 1        |              | 4        | $\vdash$ | 84       | L        | _  |          |          | Щ              |              | _        |                                     | Ш        | Щ        |    |       | 134        | 1        | ـــ          | <u> </u> | 1   | $\vdash$       | Ŀ  | ŀ        |
| -        | 35<br>36 | $\vdash$       | ├-                | <u> </u>   | -        | -            | -              | -            | ├        | <del> </del> |          | $\vdash$ | 85<br>86 | $\vdash$ |  | <u> </u> |          |                | <u> </u>     |          | $\vdash$                            | Н        | Н        |    |       | 135<br>136 | +        | $\vdash$     | -        | ╁   | ⊢              | $\vdash$   | $\vdash$ |
| $\vdash$ | 36       | $\vdash$       | -                 | -  | -        | ⊬            |                | -            | -        | ├            |          | -        | 87       | -        | -  | <u> </u> | <u> </u> | Н              | $\vdash$     |          | $\vdash$                            | Н        | $\dashv$ |    | _     | 137        | +        | $\vdash$     | ├        | +   | -              | $\vdash$   | +        |
| -        | 38       | ┢              | ╁                 | ├-   | $\vdash$ | $\vdash$     | ╁              | $\vdash$     | ├        |              | $\dashv$ | $\vdash$ | 88       | $\vdash$ |  | $\vdash$ | $\vdash$ | -              | $\vdash$     |          | $\vdash$                            | Н        | $\dashv$ |    |       | 138        | +        | +            | ⊢        | +   | $\vdash$       |  | +        |
| -        | 39       |                | ╁                 | <del> </del>                                     | Η.       | ╀            | -              | +            | $\vdash$ | $\vdash$     | $\dashv$ | $\vdash$ | 89       | $\vdash$ | $\vdash$   | H        | $\vdash$ |                | $\vdash$     |          | $\vdash$                            | $\vdash$ |          |    |       | 139        | +        | +            | $\vdash$ | +   | $\vdash$       | <del>                                     </del> | +        |
| $\vdash$ | 40       |                | $\vdash$          | $\vdash$   | $\vdash$ | $\vdash$     | +              | t            | t        |              | $\dashv$ | $\vdash$ | 90       | T        | t  |          | $\vdash$ |                |              | $\vdash$ |                                     | Н        | $\dashv$ |    |       | 140        | +        | <del> </del> | Н        | 1   | H              | $\vdash$   | t        |
| $\vdash$ | 41       |                | +-                | 1-   | Η.       | $\vdash$     | +-             | <del> </del> | $\vdash$ | $\vdash$     | $\dashv$ | $\vdash$ | 91       | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$ | H              | $\vdash$     |          | $\vdash$                            | H        | $\dashv$ | •  |       | 141        | +-       | +            | ┢        | $\dagger$                                       | ╁╌             | $\vdash$   | +        |
| $\vdash$ | 42       |                | $\vdash$          | ┢  | +        | +            | +-             | +            | $\vdash$ | <del> </del> | $\dashv$ | <u> </u> | 92       | ╁─       | ╁─   |          | -        | H              | <del> </del> |          | Н                                   | Н        | $\dashv$ |    |       | 142        | +        | +            | -        | ╁   | ╁╌             | $\vdash$   | +        |
|          | 43       |                |                   | $\vdash$   | 1        | t            | t              | $\vdash$     | $\vdash$ | T            | $\dashv$ |          | 93       |          | †  | _        |          | П              |              | $\vdash$ | Н                                   | H        | $\dashv$ |    |       | 143        | $\top$   | $\vdash$     | Т        | $\top$  | 十              | Τ.   | †        |
|          | 44       | _              | T                 | $\vdash$   | t        | t            | T              | t            | T        | Г            | П        |          | 94       | +        | $\vdash$   |          | -        | Г              | _            |          |                                     | П        |          |    |       | 144        | T        | $\vdash$     | Г        | 1   | T              | Ť  | 1        |
|          | 45       |                | T                 | T  | T        | T            | $\vdash$       | T            | T        | T            | $\Box$   |          | 95       | ┢        | $\vdash$   | ┪        |          | П              | $\vdash$     |          | Г                                   | П        |          |    |       | 145        |          | $\vdash$     | Г        | $\top$  | $\vdash$       | T  | 1        |
|          | 46       |                |                   |  | Γ        |              | $\vdash$       | T            | T        | Π            | П        |          | 96       | Г        | 1  | Γ        |          |                |              |          |                                     |          |          |    |       | 146        |          |              |          |   | Г              | Γ  | Γ        |
| 1        | 47       |                |                   |  | Ι        | Γ            |                |              |          | Г            |          |          | 97       |          |  |          |          |                |              |          |                                     |          |          |    |       | 147        |          | Γ            |          |   |                |  | Γ        |
|          | 48       | _              |                   |  |          |              | I              |              |          |              |          |          | 98       |          |  |          |          |                |              |          |                                     |          |          |    |       | 148        |          |              |          |   |                |  | L        |
| 1        | 49       |                | Ľ                 |  |          |              | L              | L            |          | $\Box$       |          |          | 99       |          | $oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{\square}}}$ |          |          |                | Ĺ            |          | Ĺ                                   | Ĺ        |          |    |       | 149        |          | $\bot$       | Ĺ        | $\bot$  | <u> </u>       | Ĺ  | Ĺ        |
| L        | 50       |                | 1_                | _  | $\perp$  | <u></u>      |                | L            |          | <u> </u>     |          | L        | 100      |          | <u></u>  | L        | L_       |                |              | <u> </u> |                                     |          |          |    |       | 150        |          | 丄            | L        |   | 丄              | <u> </u>   | 丄        |

If more than 150 claims or 10 actions staple additional sheet here

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